

NAME:

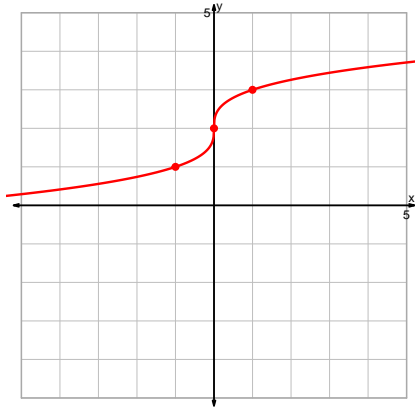
DATE:

Unit-2 Reduced Mastery Assessment (version 318)

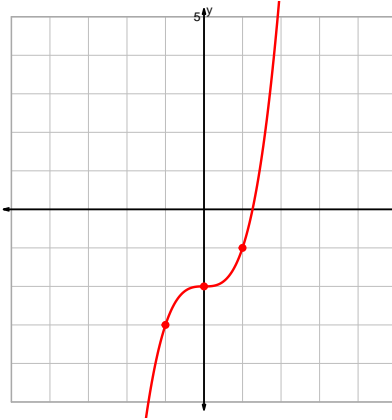
Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

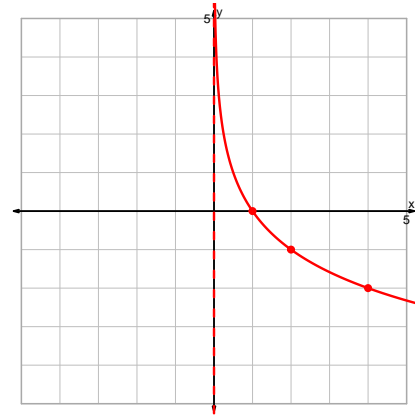
$$y = \sqrt[3]{x} + 2$$



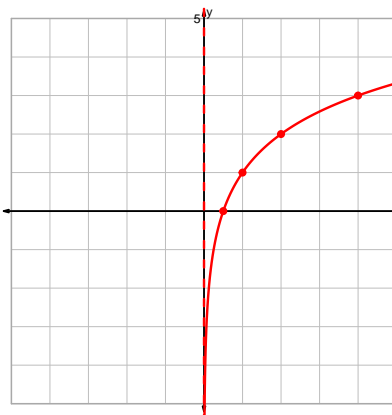
$$y = x^3 - 2$$



$$y = -\log_2(x)$$

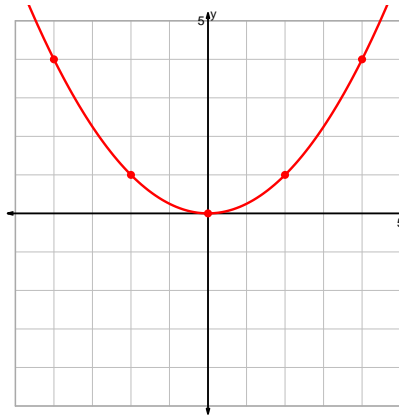


$$y = \log_2(2x)$$

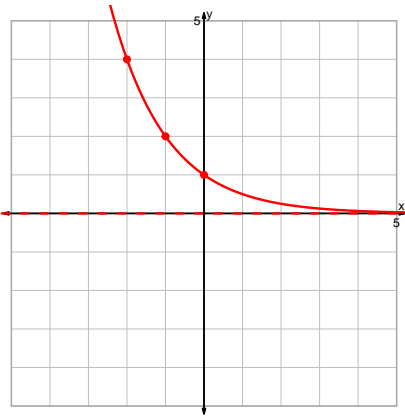


Question 2 continued...

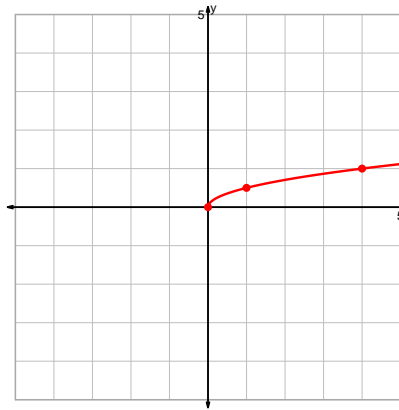
$$y = \left(\frac{x}{2}\right)^2$$



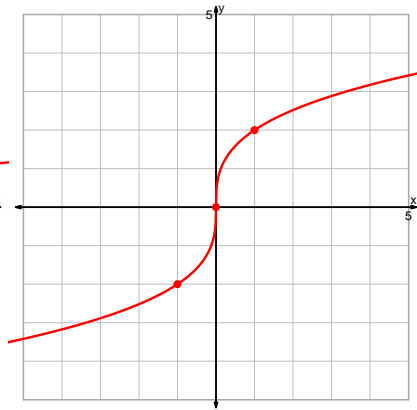
$$y = 2^{-x}$$



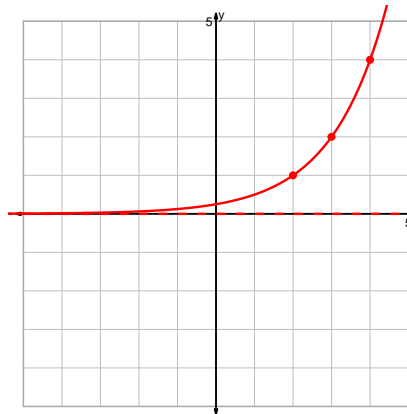
$$y = \frac{\sqrt{x}}{2}$$



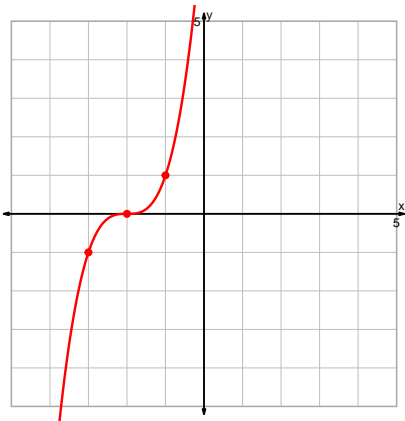
$$y = 2 \cdot \sqrt[3]{x}$$



$$y = 2^{x-2}$$

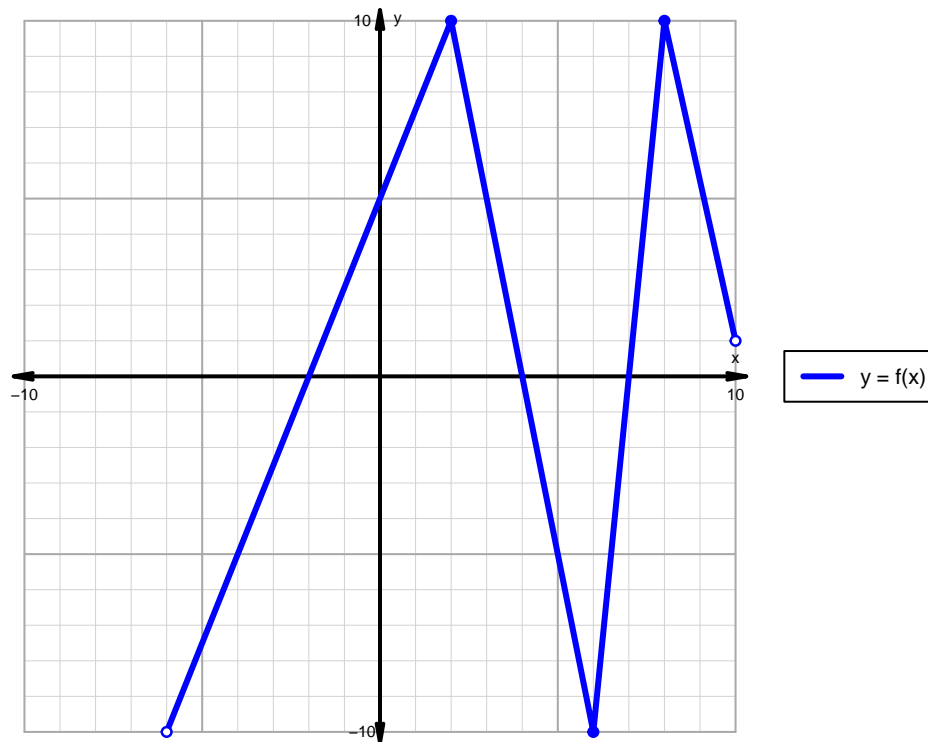


$$y = (x+2)^3$$



Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-2, 4) \cup (7, 10)$
Negative	$(-6, -2) \cup (4, 7)$
Increasing	$(-6, 2) \cup (6, 8)$
Decreasing	$(2, 6) \cup (8, 10)$
Domain	$(-6, 10)$
Range	$(-10, 10)$